

Product type designation

Reader RF1070R USB/RS232

SIMATIC RF1000 Access control reader RF1070R; ISO 14443 A/B Mifare, ISO15693 Legic Prime; Legic Advant USB port; RS 232 interface; IP65 front, -25 to +55 °C; 90 x 62 x 25 mm LxWxH; with integrated antenna; incl. 1.8 m USB connecting cable



Suitability for operation

Legic, ISO 15693 and ISO 14443 A/B transponder, for connecting to PC and control systems

Wireless frequencies

Operating frequency / Rated value

13.56 MHz

Range / maximum

30 mm; Range is dependent on transponder type: observe <http://support.automation.siemens.com/WW/view/en/67384964>

Protocol / with radio transmission

Legic Prime, Legic Advant, ISO 15693, ISO 14443 A/B, chip set: SM4200M

Transfer rate / with radio transmission / maximum

106 kbit/s

Product feature / multitag-capable

Yes

Electrical data

Transfer rate / at the point-to-point connection / serial / maximum

115.2 kbit/s

Interfaces

Standard for interfaces / for communication

USB 2.0, RS232

Type of electrical connection

1.8 m connecting cable with USB 2.0 type A connector or RS232 connecting cable

Mechanical data

Material	PC-GF
Color	Ti gray
Tightening torque / of the screw for securing the equipment / maximum	1.5 N·m
Mounting distance / relating to metal surfaces / recommended / minimum	0 mm

Supply voltage, current consumption, power loss

Supply voltage	
<ul style="list-style-type: none"> • at DC / Rated value • at DC 	5 V 4.6 ... 5.25 V
Consumed current / at DC / at 24 V	
<ul style="list-style-type: none"> • typical • maximum 	0.15 A 0.3 A

Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> • during operation • during storage • during transport 	-25 ... +55 °C -25 ... +55 °C -25 ... +55 °C
Protection class IP	IP65, on front after cabinet installation, IP20 rear
Shock resistance	EN 60721-3-7 Class 7 M2
Shock acceleration	300 m/s ²
Vibrational acceleration	50 m/s ²

Design, dimensions and weight

Width	90 mm
Height	62 mm
Depth	23.5 mm
Mounting type	4 M4 screws for cabinet installation

Product properties, functions, components / general

Display version	3-color LED
Product feature / silicon-free	Yes

Standards, specifications, approvals

Certificate of suitability	Radio according to R&TTE guidelines EN300 330 and EN 301489, FCC, cULus
Certificate of suitability	
<ul style="list-style-type: none"> • IECEx 	Yes

Further information / Internet-Links

Internet-Link	
<ul style="list-style-type: none"> • to website: Selector SIMATIC NET SELECTION TOOL • to website: Industrial communication • to website: Industry Mall 	https://support.industry.siemens.com/cs/ww/en/view/67384964 http://www.siemens.com/ident/rfid https://mall.industry.siemens.com

- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/industry/infocenter>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

last modified:

11/11/2019